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# Edward de Koning

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## PROFESSIONAL PROFILE

*A curious and communicative biologist with a broad interest in and outside his field. Has a quick understanding of new problems and can contribute with out of the box solutions. Is able to master new skills individually and works most comfortable within a communicating team, triggered by new insights and angles.*

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## CAREER SUMMARY

**2/2019–today**                      **Stanford University, STANFORD CA.**  
**Visiting Student Researcher (2/2019 – 1/2020)**  
**Postdoctoral researcher (2/2020 – today)**  
**Developmental Biology, School of Medicine**

In the lab and under supervision of prof.dr. Lucy Shapiro.

- Research focus: Investigating sub-cellular organization and biogenesis of poly-hydroxybutyrate granules in *Caulobacter crescentus*.

**9/2014–1/2020**                      **University of Amsterdam, AMSTERDAM**  
**PhD candidate Bacterial Cell Biology**

In the lab and under supervision of prof.dr. Leendert Hamoen.

- Research focus: Investigating spatial and temporal organization of the *Bacillus subtilis* cell division machinery.
- Publications: De Jong, De Koning, *et al.* 2017 Journal of Proteome Research *In-Culture Cross-Linking of Bacterial Cells Reveals Large-Scale Dynamic Protein-Protein Interactions at the Peptide Level*

**8/2013–1/2014**                      **Energy Biosciences Institute, BERKELEY CA.**  
**Internship part of MSc degree**

In the lab of prof.dr. N. Louise Glass, daily supervision by dr. Trevor Starr.

- Research focus: Investigating protein production and secretion by *Neurospora crassa*. Specifically the role of ER cargo adaptor proteins in cellulase secretion
- Results: Identified a cellulase hyperglycosylation mutant and discovered secretion of ER-resident chaperone Grp78/Kar2 to be part of WT growth on cellulose for *N. crassa*.

**12/2012–6/2013**                      **Leiden University, LEIDEN**  
**Internship part of MSc degree**

In the lab of dr. Remko Offringa, daily supervision by dr. Kasper van Gelderen.

- Research focus: auxin transport by PIN transporters in *Arabidopsis thaliana*. Investigating protein – protein interaction between PIN and proteins that affect auxin transport (PID and NPY1)<sup>[1][SEP]</sup>
- Results: Discovered competition between different interaction partners of the PIN2 hydrophilic loop.

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## CAREER SUMMARY *continued*

### **2/2012–6/2012      Leiden University, LEIDEN** **Internship part of BSc degree**

In the lab of dr. Dennis Claessen, daily supervision by dr. Marloes Petrus.

- Research focus: Identifying and characterizing genetic heterogeneity in the vegetative mycelium of *Streptomyces coelicolor*<sup>[L]<sub>SEP</sub></sup>
- Results: Discovered new, unknown expression patterns for *actII-ORF4* and *cdaR*, both operon regulators of antibiotic clusters

### **12/2010-12/2011      Member of the board of the biology study association**

- Function: secretary of internal affairs. Executive supervisor of at least two weekly activities. Executive supervisor of the freshmen introduction, a 3-day camp with 90 participants.
- Function 9/2011-12/2011: Treasurer. I took this job on me due to sickness of a colleague. Included composing and defending the 2010-2011 closing balance.

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## EDUCATION AND QUALIFICATIONS

<b>2014-2020</b>	Doctor of Philosophy, Universiteit van Amsterdam
<b>2012-2014</b>	MSc. in Molecular and Cellular Biosciences, Leiden University Electives: Mathematical Biology and Bio-modeling
<b>2009-2012</b>	BSc. in Biology, Leiden University
<b>2003-2009</b>	High school, Zoetermeer Mathematics, Biology, Physics, Chemistry, Dutch and English Electives: Ancient Greek, German and Economics

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## TECHNICAL SKILLS

- (cross-linked) Peptide identification by LC-MS/MS
- Protein activity assay
- RT-qPCR<sup>[L]<sub>SEP</sub></sup>
- *in vitro* and *in vivo* pull down assay
- Western blotting
- (Confocal) microscopy, time-lapse microscopy
- PCR, molecular cloning, SDS-PAGE
- Transformation and propagation of *E. coli*, *S. cerevisiae*, *Streptomyces coelicolor*, *Neurospora crassa*, *Bacillus subtilis*

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## FURTHER SKILLS

<b>IT Proficiency</b>	Word, Excel, PowerPoint, Photoshop, ImageJ
<b>Languages</b>	English, Dutch and basic German

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## INTERESTS AND ACTIVITIES

**Include**              Squash, football, playing (bass)guitar, online- or boardgames